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**(54) REVERSIBLE POLYCHROMATIC HEAT-SENSITIVE RECORDING MEDIUM AND DISPLAY MEDIUM, REVERSIBLE POLYCHROMATIC IMAGE FORMATION AND INITIALIZATION USING THE MEDIA, EXECUTING APPARATUS THEREFOR AND REVERSIBLE POLYCHROMATIC THERMAL COLORING COMPOSITION**

(57)Abstract:

**PURPOSE:** To make it possible to form a reversible polychromatic heat-sensitive medium, whose color fading temperature is lower than color development temperature, and a display medium by providing a plurality of kinds of reversible thermal color development compositions having the different coloring tones and color fading temperature regions on a supporting body in the separated, independent states, respectively, facilitating coloring and fading only by heating, and stably keeping both states at normal temperature.

**CONSTITUTION:** A reversible polychromatic heat-sensitive medium and a display medium, wherein the plural kinds of reversible thermal coloring compositions having the different coloring tones and color fading temperature regions are provided on a supporting body in the separated and independent state, are formed. Two or more of the compositions contained in the recording medium or the display medium are subjected to color development and the mixed color is formed in a color development step. One or more of the compositions among the color-developed compositions are faded in a color fading step. A reversible polychromatic image forming method including these steps is constituted. Of the color-developed

composition contained in the recording medium or the display medium, the compositions are faded by primary heating in the color fading region in the order of the compositions from the high temperature side to the low temperature side at the color fading starting temperature. The recording and display media for fading all the compositions are initialized.

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